

Service Manual

Colour Television

CHASSIS : CM-220N

Model : DTH-20D5FSN

DTH-21D4FSN



DTH-20D5FSN



DTH-21D4FSN

■ SPECIFICATIONS

MODEL	DTH-20D5FSN	DTH-21D4FSN
ITEM		
TV STANDARD	PAL-M/N	
POWER INPUT	220V 50/60HZ	
POWER CONSUMPTION	88W	
TUNING SYSTEM	Frequency Synthesizer (FS) Tuning System	
TUNING RANGES	TV VHF(L) : CH2 ~ CH6 UHF(H) : CH7 ~ CH13 UHF : CH14 ~ CH69 CATV VHF(L) : 5A,A,B,A-5-A-1 CH2-CH6 VHF(H) : C-W+11 CH7-CH13 UHF : W+12-W+84	
SOUND OUTPUT	5W + 5W	
SPEAKER	8 ohm 5W X 2EA	
ANTENNA INPUT IMPEDANCE	75 ohm Unbalanced	
AUXILIARY INPUT TERMINAL	Front : Video, Audio, Earphone Rear: Video, Audio, (R,L)	
INTERMEDIATE FREQUENCIES	Picture IF Carrier Frequency : 45.75 MHZ Sound IF Carrier Frequency : 41.25 MHZ Color Sub-Carrier Frequency : 3.579545 MHZ	
REMOTE CONTROL	R-43A01	
SPECIAL FUNCTIONS	1) ICON MENU TYPE 2) 3-Language OSD 3) WITH CAPTION 4) CH LABEL	

DAEWOO ELECTRONICS CO., LTD

[http : //svc.dwe.co.kr](http://svc.dwe.co.kr)

May.2001

TABLE OF CONTENTS

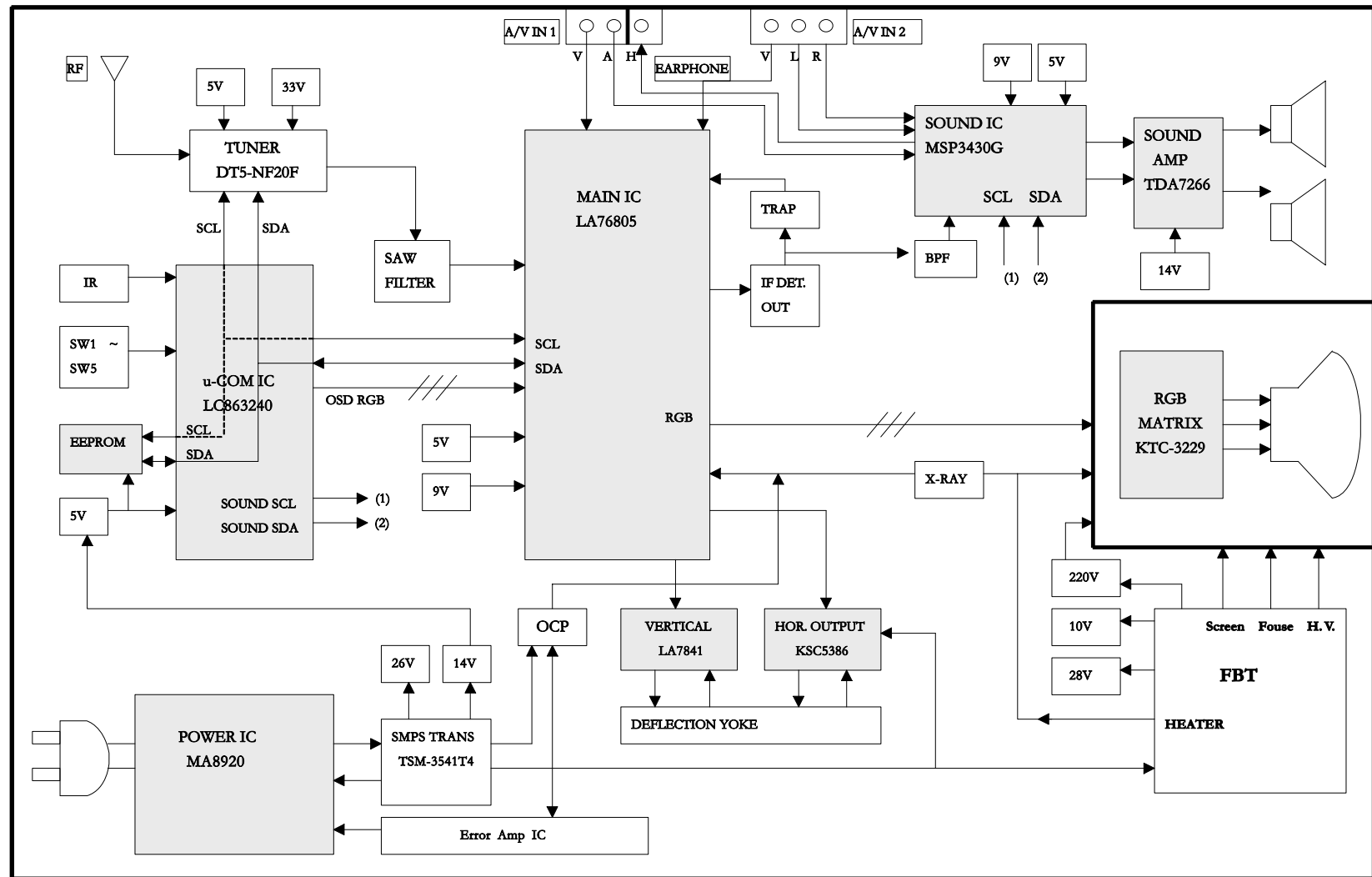
SPECIFICATIONS	2
CIRCUIT BLOCK KIAGRAM	3
ALIGNMENT INSTRUCTION	4
Your Remote Control	4
Service Mode Adjustment	5
Assembly Adjustment	6
SCHEMATIC DIAGRAM	10
PRINTED CIRCUIT BOARD	11
EXPLODED VIEW	12
SERVICE PARTS LIST	14
 APPENDIX ("Appendix is provided only by internet [http://svc.dwe.co.kr]")	
TROUBLE SHOOTING GUIDE	34
1. No Power	34
2. No Picture	35
3. No Sound	36
4. CH Don't Stop	37
5. No Color	38
6. No Vertical Deflection	38
7. No On-Screen Display	39
8. Remote ControlDoes Not Operate	39

SPECIFICATIONS

CM-220N

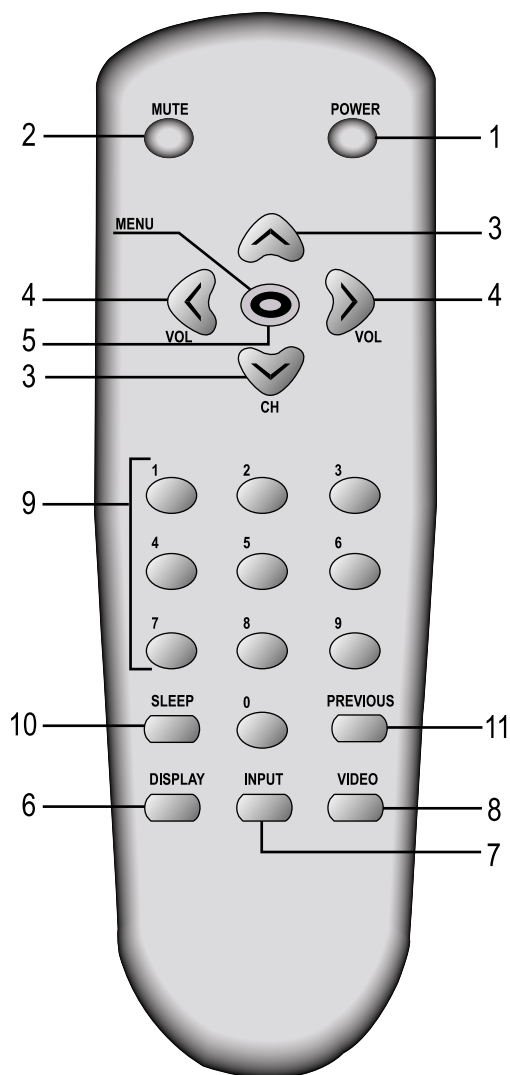
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CIRCUIT BLOCK DIAGRAM



ALIGNMENT INSTRUCTION

Your Remote Control



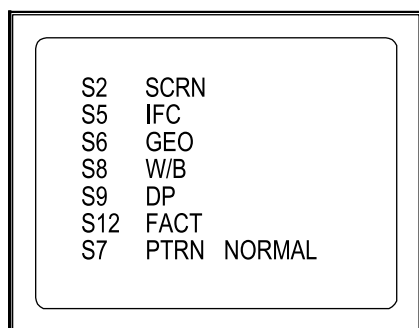
1. **POWER**
Use this button to turn your TV on or off.
2. **MUTE**
Use to turn the TV's sound on and off.
3. **▼ CH ▲**
Use these buttons to change your TV's volume, to activate selections in the menu system.
4. **◀ VOL ▶**
Use these buttons to change your TV's volume, to activate selections in the menu system, or to change audio and video settings.
5. **MENU**
Use this button to turn the TV's menu system on and off.
6. **DISPLAY**
Use this button to display the channel number and status.
7. **INPUT**
Use this button to select the TV's signal source.
8. **VIDEO**
Use this button to display video adjustment.
9. **0-9**
Use these buttons to change channels.
10. **SLEEP**
Use this button to program the TV to turn off after a certain time.
11. **PREVIOUS**
Use this button to return to the previous channel you were watching.

SERVICE MODE ADJUSTMENTS

Follow the steps below whenever service adjustment is required. See Table- A and Table- B to determine if service adjustments are required.

1) How to enter the service mode using the user remote control.

- Turn the set on.
- Direct the remote control to the reception window of TV.
- Push buttons of remote control in sequence as follows.
1 → MUTE → DISPLAY → MUTE
- Then, the screen will appear as follows.



- Using the channel up or channel down button, select the item you wish to adjust.
(The color of selected item turns into the red.)
- Press the volume up or down button to enter in the service mode you wish to adjust.

2) How to memorize the adjusted values in the service mode.

- Must press DISPL AY button the state which the screen is displaying each of service menus after all adjustments are completed each of all service menu.

Table-A : Adjust the values of service mode when a part is replaced.

PART REPLACED	ADJUSTMENT		NOTES								
	NECESSARY	UNNECESSARY									
I701 (U-COM)		○	Data is stored in I703								
I101 (MAIN)		○									
I703 (EEPROM)	○		Initial setting values are written from I701. Adjusting Items <table border="1"><tr><td>S5</td><td>RFAGCD</td></tr><tr><td>S6</td><td>H.PHASE/V.POSI/V.SIZE</td></tr><tr><td>S8</td><td>RD/BD/RB/GB/BB</td></tr><tr><td>S9</td><td>Subbrightness</td></tr></table>	S5	RFAGCD	S6	H.PHASE/V.POSI/V.SIZE	S8	RD/BD/RB/GB/BB	S9	Subbrightness
S5	RFAGCD										
S6	H.PHASE/V.POSI/V.SIZE										
S8	RD/BD/RB/GB/BB										
S9	Subbrightness										
CRT	○		Adjust items related to picture tube only. (White Balance adjustment)								

ALIGNMENT INSTRUCTIONS

Table-B

MODE	ADJUSTMENT ITEMS	DATA		REMARKS
		INITIAL	RANGE	
S2	Screen Adjustment	-	-	
S5	Auto RF AGC	-	-	
	Video Level (VIDEOL)	7	0~7	Must be set to 7
	RF AGC Delay (RFAGCD)	*	0~63	Align RF AGC threshold
	FM Level (FM.LEV)	8	0~31	Must be set to 20
	AGC Point	3.75	-	Select AGC reference voltage
	A/D VALUE	-	-	
S6	Horizontal Phase(H.PHASE)	*	0~31	Align sync to flyback pulse, using internal cross pattern(S7)
	Vertical Position (V.POSI)	*	0~63	Align vertical DC bias, using internal cross pattern(S7)
	Vertical Size (V.SIZE)	*	0~127	Align vertical amplitude, using internal cross pattern(S7)
	NO SD POWER OFF	YES	-	Automatically turn off in 15min for no received signal.
	Vertical S-Correction (V SC)	0	0~31	Must be set to 6
	Vertical Linearity (V LIN)	20	0~31	Must be set to 16
S7	Internal Black	-	-	Display internal BLACK pattern
	Internal 100% White	-	-	Display internal 100% WHITE
	Internal 60% White	-	-	Display internal 60% WHITE
	Internal Cross Pattern	-	-	Display internal CROSS pattern
S8	Red Drive (RD)	*	0~127	Align RED OUT level
	Green Drive (GD)	10	0~15	Must be set to 10
	Blue Drive (BD)	*	0~127	Align BLUE OUT AC level
	Red Bias (RB)	*	0~255	Align RED OUT DC level
	Green Bias (GB)	*	0~255	Align GREEN OUT DC level
	Blue Bias (BB)	*	0~255	Align BLUE OUT DC level
S9	Subbrightness	*	0~127	Align common RGB DC level
	Contrast	10	0~27	
	Tint	27	0~27	
	Color	15	0~27	
S12	Forwarding Mode	-		Factory Initialization

* indicates the items with different settings each of sets

ASSEMBLY ADJUSTMENTS

1) SCREEN ADJUSTMENT (S2)

Enter the service mode and select service adjustment S2.

You can see the one horizontal line on the screen.

Adjust the Screen Control Volume (located on FBT) so that the horizontal line onscreen may be disappeared.

Press the volume up or down button to exit in the screen adjustment mode.

NOTE

IN THE SCREEN ADJUSTMENT MODE, DON'T PRESS OTHER BUTTONS EXCEPT VOLUME UP OR DOWN BUTTON.

2) FOCUS ADJUSTMENT

- Turn in a local station and adjust the Focus Control knob (located on FBT) for best picture details at high light condition.

3) RF AGC DELAY ADJUSTMENT (S5)

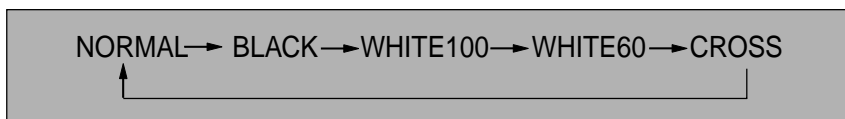
- Receive a good local channel.
- Enter the service mode and select service adjustment S5.
- You can see the OSD as shown in below.

IF CONTROL	
AUTO RFAGC	START
VIDEO	7
RFAGCD	10
FM.LEV	8
AGC POINT	3.75
A/D VALUE : 8DH	
▲▼ MOVE ◀▶ ADJUST RECALL : SET	

- Select RFAGCD item, press the volume up or down button until noise or beat in picture disappears.
- Press the DISPLAY button to memorize the data.

4) GEOMETRIC ADJUSTMENTS (S6)

- Enter the service mode and select service adjustment S7.
- Whenever you select the "S7" using the volume up or down button, the screen is changing like this.



- Using the volume up or down button, select internal cross pattern.
- Select service adjustment S6.
- You can see the OSD as shown in below.

No	SD	OFF	YES	OFFSET
H. PHA	60HZ	15	60-50HZ	5
V. POS	60HZ	61	60-50HZ	3
V. LIH	60HZ	27		
V. SIZZ	Z	75	50-60HZ	0
V. SIZE	W	15		
V. SC		0		

Press S6 again

FM / AM	PRESCALE	44
START	PRESCALE	44
▲▼ MOVE ◀▶ ADJUST RECALL : SET		

4-1. Horizontal Position Adjustment

- Select H.PHASE item, adjust H.PHASE data value to obtain proper horizontal centering of the internal cross pattern at the left and right of the screen.

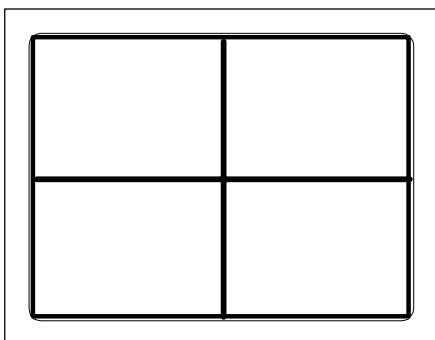
4-2. Vertical Position Adjustment

- Select V.POSI item, adjust V.POSI data value to center the raster properly on the screen.

ALIGNMENT INSTRUCTIONS

4-3. Vertical Size Adjustment

Select "V.SIZE" item, adjust "V.SIZE" data value to proper vertical size as follows.

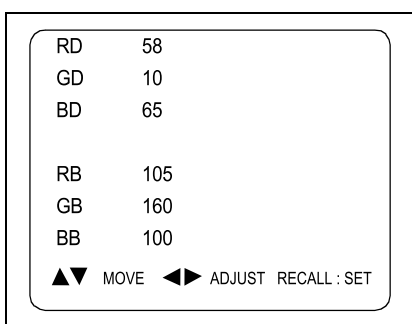


5) WHITE BALANCE ADJUSTMENT (S8)

Receive a good local channel.

Enter the service mode and select service adjustment S8.

You can see the OSD as shown in below.



Using volume up or volume down, adjust service adjustment data of RD/GD/BD and RB/GB/BB until a good gray scale with normal whites is obtained. ALIGNMENT INSTRUCTIONS

Press the DISPLAY button to memorize the data.

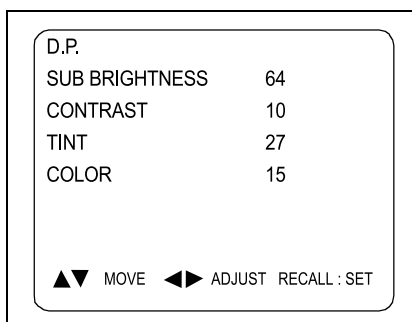
6) DIGITAL PRESET(D.P) ADJUSTMENTS (S9)

SUBBRIGHTNESS ADJUSTMENT

Receive a good local channel.

Enter the service mode and select service adjustment S9.

You can see the OSD as shoown in below.



Select Subbrightness item, adjust Subbrightness data value to obtain normal brightness level.
Press the DISPLAY button to memorize the data.

CONTRAST

Fixed value = 10

TINT

Fixed value = 27

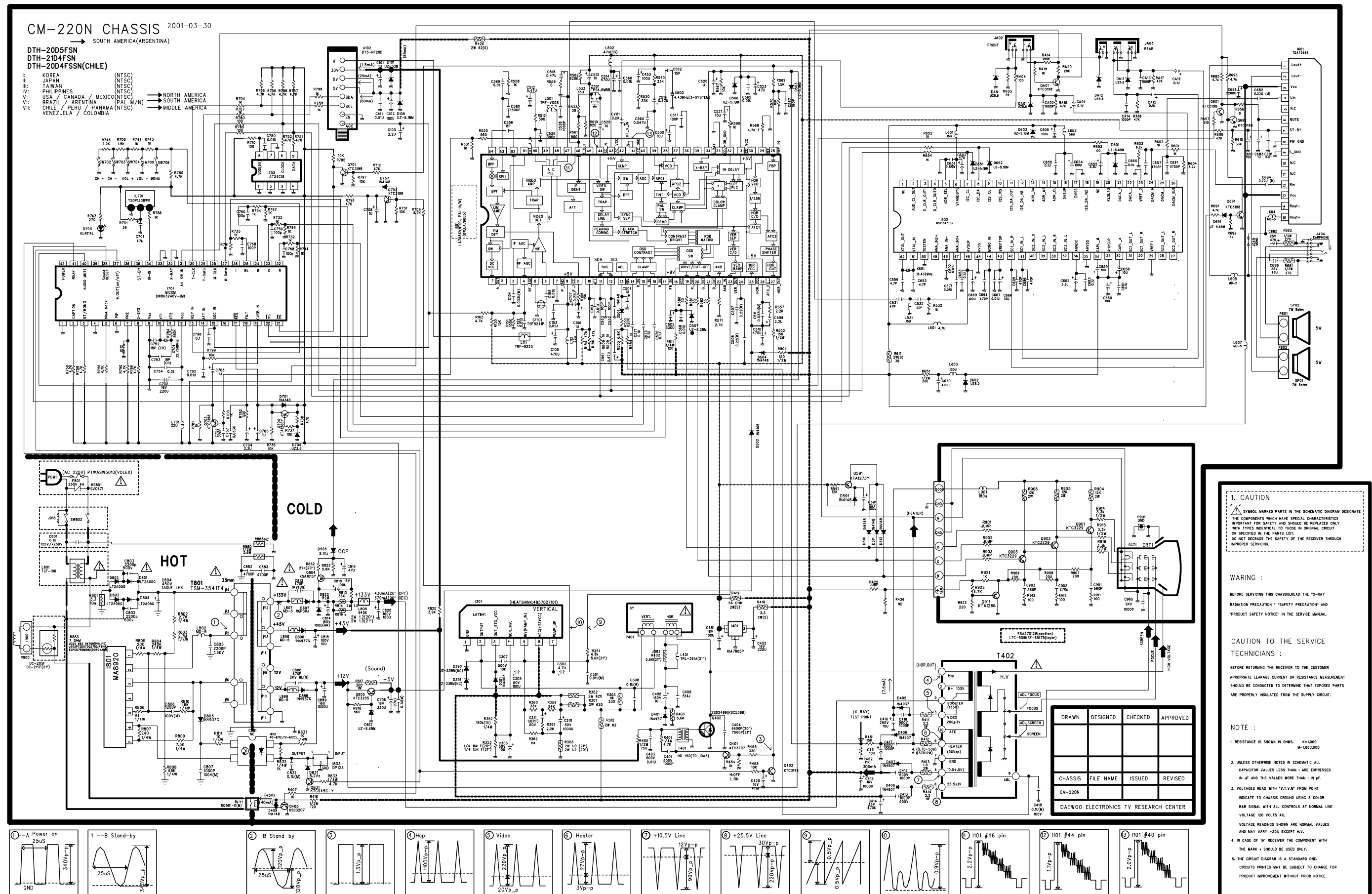
COLOR

Fixed value = 15

7) FACTORY OUTGOING MODE (S12 : FACT)

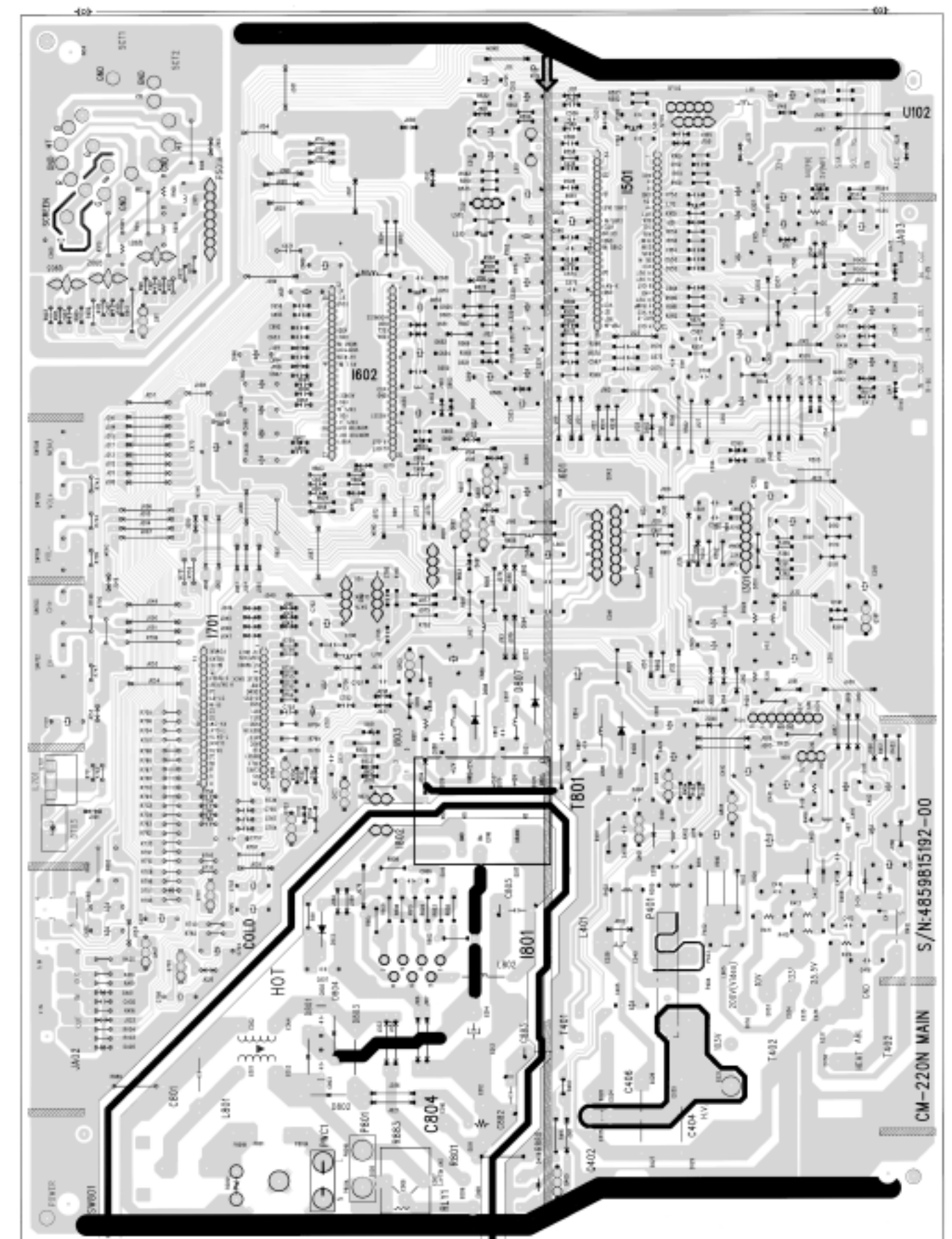
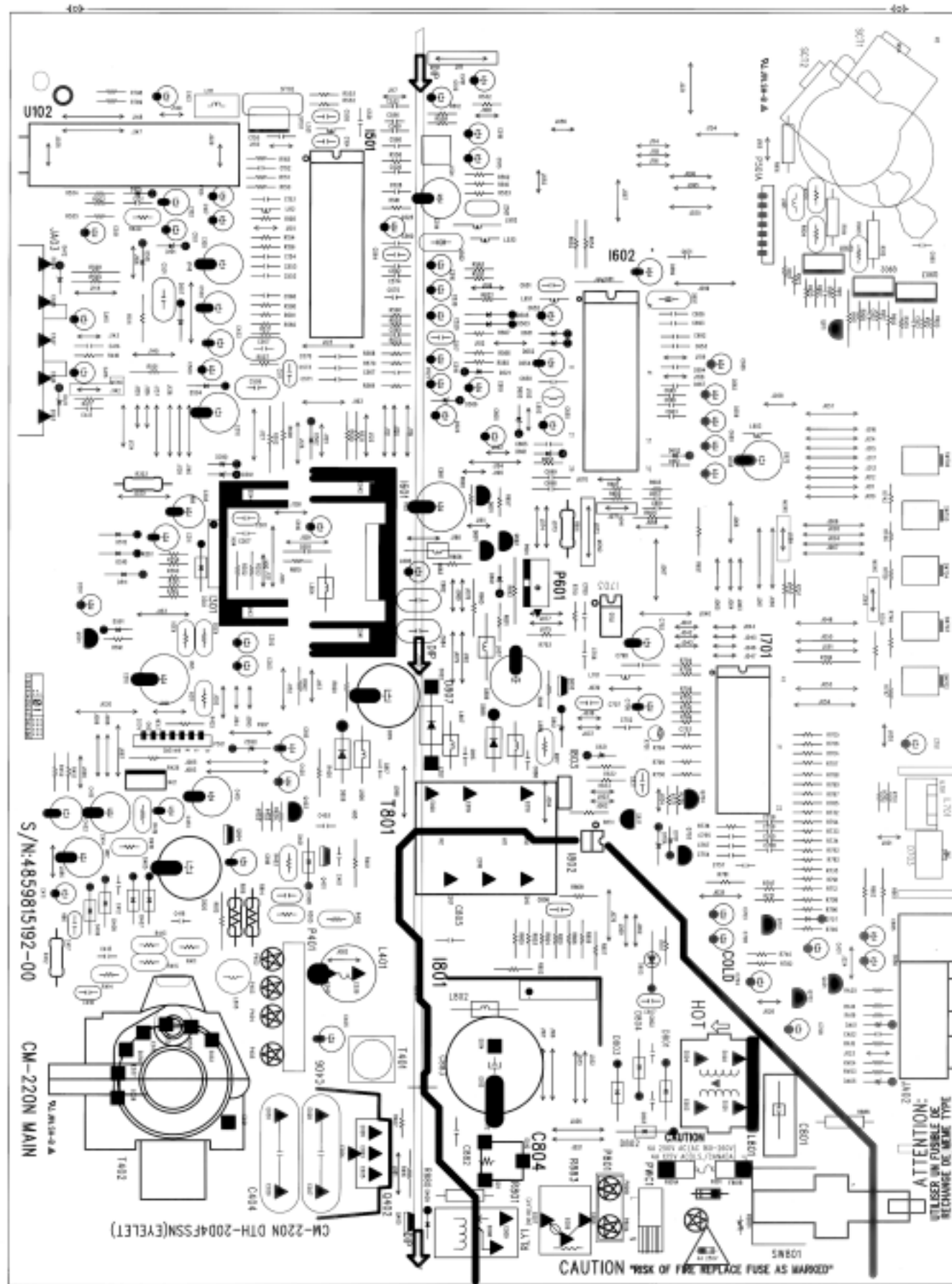
If you select the S12, then the set becomes factory outgoing status.
You can see the OSD "outgoing OK"

SCHEMATIC DIAGRAM



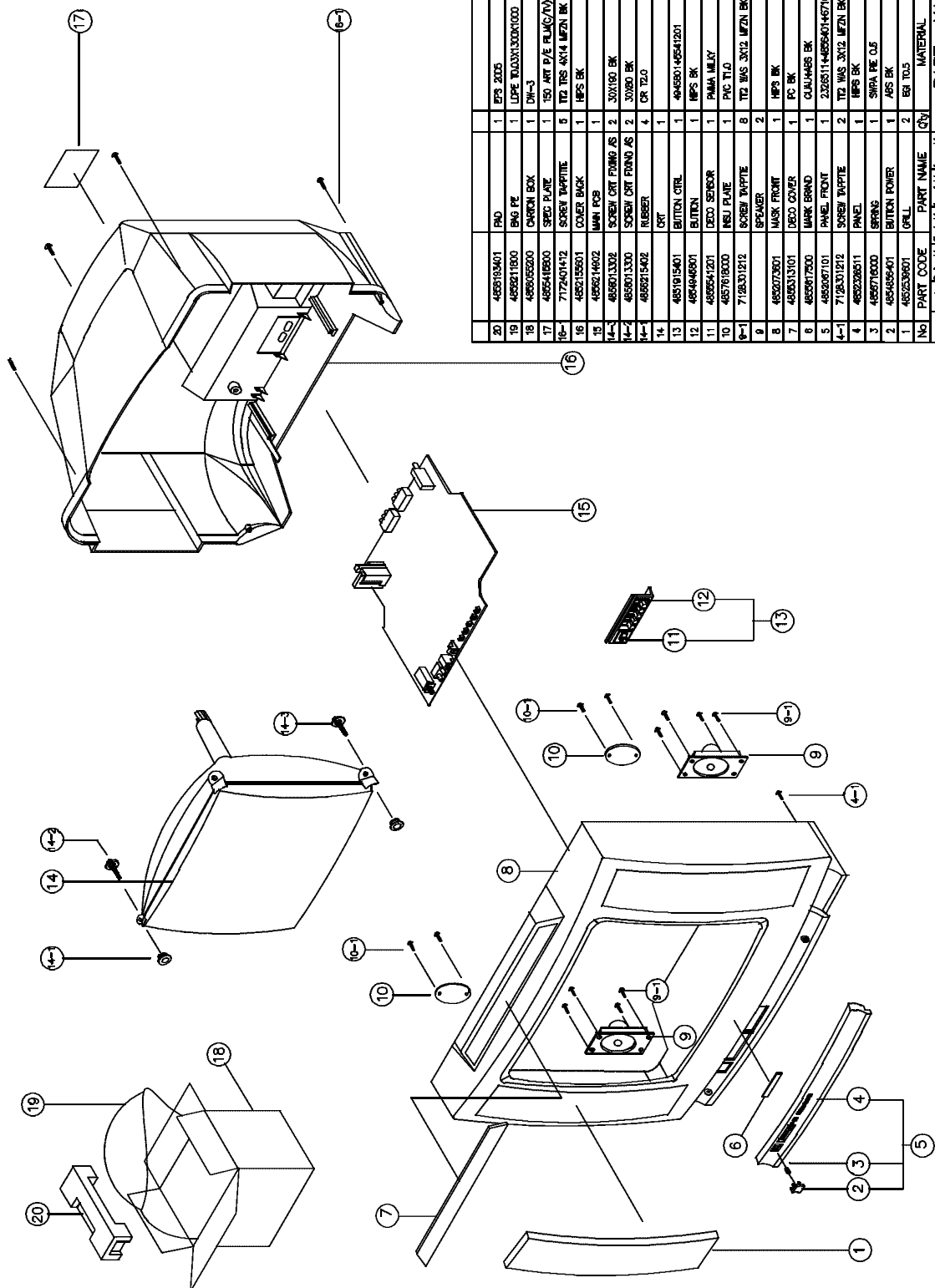
PRINTED CIRCUIT BOARD

PCB MAIN



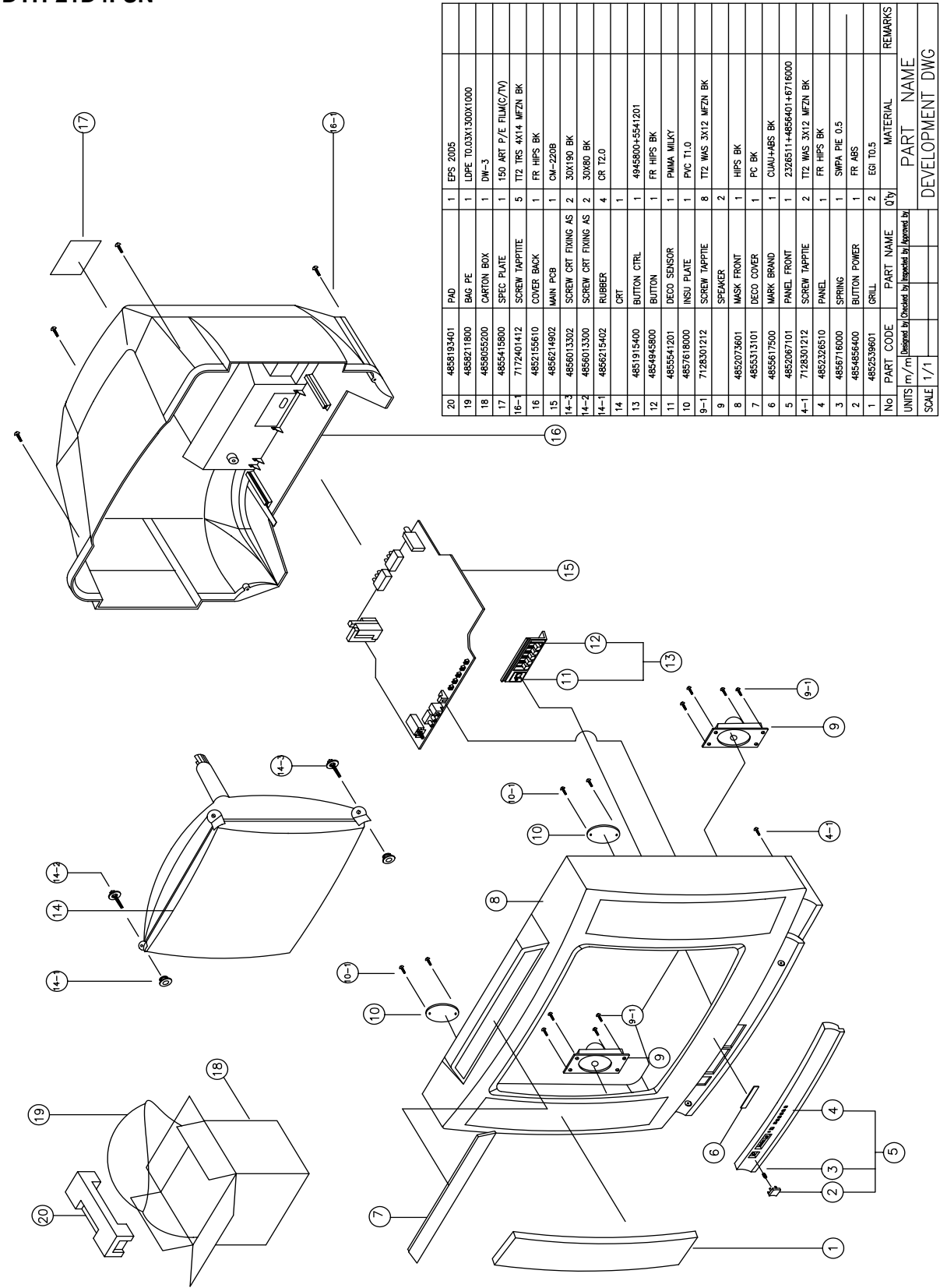
EXPLODED VIEW

DTH-20D5FSN

[illegible]

EXPLODED VIEW

DTH-21D4FSN



20	4858193401	PAD	1	EPS 2005	
19	4858211800	BAG PE	1	LDPE 10.0X130X1000	
18	4859055200	CARTON BOX	1	DW-3	
17	4855415800	SPEC PLATE	1	T50 ART P/E FILM(C/TV)	
16-1	7172401412	SCREW TAPPIE	5	T12 TRS 4X14 MFZN BK	
16	4852155610	COVER BACK	1	FR HPS BK	
15	4856214902	MAIN PCB	1	CM-220B	
14-3	4856013302	SCREW CRT FIXING AS	2	30X190 BK	
14-2	4856013300	SCREW CRT FIXING AS	2	30X80 BK	
14-1	4856215402	RUBBER	4	CR T2.0	
14		CRT	1		
13	4851915400	BUTTON CTRL	1	49458001-5541201	
12	4854845800	BUTTON	1	FR HPS BK	
11	4855541201	DECO SENSOR	1	PMMA MILKY	
10	4857618000	INSU PLATE	1	PVC T1.0	
9-1	7128301212	SCREW TAPPIE	8	T12 WAS 3X12 MFZN BK	
9		SPEAKER	2		
8	4852073601	MASK FRONT	1	HPS BK	
7	4855313101	DECO COVER	1	PC BK	
6	4855617500	MARK BRAND	1	CJAU+ABS BK	
5	4852087101	PANEL FRONT	1	2326511+4856401+6716000	
4-1	7128301212	SCREW TAPPIE	2	T12 WAS 3X12 MFZN BK	
4	4852326510	PANEL	1	FR HPS BK	
3	4856716000	SPRING	1	SWPA PIE 0.5	
2	4854856400	BUTTON POWER	1	FR ABS	
1	4852539601	GRILL	2	EGI T0.5	
No	PART CODE	PART NAME	Q'ty	MATERIAL	REMARKS
UNITS	m/m	Designed by	Inspected by	Approved by	
SCALE	1/1				DEVELOPMENT DWG

SERVICE PARTS LIST

⚡ **CAUTION** : In this Service Manual, some parts can be changed for improving their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List)in Service information Center(<http://svc.dwe.co.kr>)

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
ZZ100	48B4343A01	TRANSMITTER REMOCON	R-43A01 (AA)	®
ZZ110	PTACPWD362	ACCESSORY AS	DTH-20D5FS	
10	4850A02510	ANT ROD	S3BW216B (L=600 MM)	
30	4850Q00810	BATTERY	R6P/LN	
40	4850A02050	TRANS ANT MATCHING	UMT PA 002	
M821	4858213800	BAG INSTRUCTION	L.D.PE T0.05X250X400	
ZZ120	PTBCSHD362	COVER BACK AS	DTH-20D5FS	
M211	4852155601	COVER BACK	HIPS BK	△
M781	4857817611	CLOTH BLACK	FELT 200X20X0.7	
M782	4857817610	CLOTH BLACK	FELT 300X20X0.7	
ZZ130	PTPKCPD362	PACKING AS	DTH-20D5FS	
M801	4858055200	BOX CARTON	DW-3	
M811	4858193401	PAD	EPS 20D5	
M821	4858211800	BAG P.E	L.D.PE T0.03X1300X1000	
ZZ131	48519A5110	CRT GROUND NET	2001S-1015-1P	△
ZZ132	58G0000146	COIL DEGAUSSING	DC-20SF	△
ZZ140	PTCACAD441	CABINET AS	DTH-20D5FSN	
CRT1	4859631667	CRT	A48JLL91X50(P) M16	® △
CRT1A	4856215402	WASHER RUBBER	CR T2.0	
CRT1B	4856013300	SCREW CRT FIXING	30X80 BK	
CRT1C	4856013302	SCREW CRT FIXING	30X190 BK	
M191	4851940501	BUTTON CTRL	4945802+5541201	
M192	4851940601	PANEL FRONT AS	2326511+4856401+6716000	
M192A	7178301212	SCREW TAPPTITE	TT2 WAS 3X12 MFZN BK	
M201A	7172401412	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK	
M531	4855313101	DECO COVER	PC BK	
M541	4855415800	SPEC PLATE	150ART P/E FILM (C/TV)	
M561	4855617500	MARK BRAND	CU AU+ABS BK	
M681	4856812001	TIE CABLE	NYLON66 DA100	
M761	4857618000	INSU PLATE	PVC T1.0	
M761A	7178301211	SCREW TAPTITE	TT2 WAS 3X12 MFZN	
M781	4857820901	CLOTH BLACK	CLOTH T0.7 L=200	
SP01A	7178301211	SCREW TAPTITE	TT2 WAS 3X12 MFZN	
SP02A	7178301211	SCREW TAPTITE	TT2 WAS 3X12 MFZN	
ZZ200	PTFMSJD362	MASK FRONT AS	DTH-20D5FS	
M201	4852073611	MASK FRONT	HIPS GY 20D5	△
M251	4852539601	GRILL	EGI T0.8	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
ZZ210	PTSPPWD362	SPEAKER AS	DTH-20D5FS	
PA601	4850704S27	CONNECTOR	YH025-04+35098+ULW=400	
SP01	4858310910	SPEAKER	SP-5090F03	®
SP02	4858310910	SPEAKER	SP-5090F03	®
ZZ290	PTMPMSD441	PCB MAIN MANUAL AS	DTH-20D5FSN	
C403	CCYB2H103K	C CERA	500V B 0.01MF K	
C404	CMYH3C662H	C MYLAR	1.6KV BUP 6600PF H	®
C406	CMYE2D514J	C MYLAR	200V PU 0.51MF J	®
C801	CL1UC3104M	C LINE ACROSS	WORLD AC250V 0.1UF M R.47	®
C804	CEYN2W151P	C ELECTRO	450V LHS 150MF (25X40)	®
C805	CMYH3C222J	C MYLAR	1.6KV BUP 2200PF J	
D703	DKLR114L--	LED	KLR114L	®
D807	DRGP30J---	DIODE	RGP30J	
F801	5F3GB4022L	FUSE GLASS TUBE	V/S TL 4A 250V MF51	® ⚠
I301	PTC2SW4607	HEAT SINK ASS`Y	1LA7841--- + 7174300811	
I301	1LA7841---	IC VERTICAL	LA7841	®
I301A	4857024607	HEAT SINK	AL EX DG	
I301B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
I401	1K1A7805P1	IC REGULATOR	KIA7805API	®
I501	1LA76805--	IC MAIN	LA76805	®
I601	PTB2SW6113	HEAT SINK ASS`Y	1TDA7266-- + 7174301011	
1	1TDA7266--	IC AUDIO	TDA7266	®
0000A	4857026113	HEAT SINK	AL EX	
0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
I602	1MSP3430A4	IC AUDIO	MSP3430G-P0-A4	®
I701	1DW8632JM1	IC MICOM	DW863240V-JM1(5S63)	®
I703	1AT24C16PC	IC	AT24C16-10PC	®
I801	PTD1SW5801	HEAT SINK ASS`Y	1MA8920--- + 7174301011	
1	1MA8920---	IC POWER	MA8920	®
0000A	4857015801	HEAT SINK	SPCC-SNT1.0	
0000B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN	
0000C	4853938501	BRKT TR	SBHG1-A T1.5	
I802	1LTV817C--	IC PHOTO COUPLER	LTV-817C	® ⚠
I803	1DP133----	IC ERROR AMP	DP133	®
IL701	1TS0P1238W	IC PREAMP	TS0P1238WI1	®
JA02	4859110250	JACK PIN BOARD	YS-JB9711	®
JA03	4859109250	JACK PIN BOARD	PH-JB-9614A	®
L111	58C5580019	COIL CHOKE	TRF-9225 (0.55UH)	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
L501	58N0000042	COIL VCO	TRF-V008	
L801	5PTLF106--	FILTER LINE	TLF-106	
M352	4853530901	HOLDER LED	P.P	
M682	4856812001	TIE CABLE	NYLON66 DA100	
P401	4859240020	CONN WAFER	YFW500-05	
P501A	4850708N08	CONNECTOR	BIC-08T-25T+C-20T+ULW=400	
P801A	4859242220	CONN WAFER	YFW800-02	
PWC1	4859909110	CORD POWER AS	LP-16+H03VVH2-F+HOU=2600	△
PWC1A	4859242220	CONN WAFER	YFW800-02	
Q402	PTH2SW7200	HEAT SINK ASS'Y	TKSC5386-- + 7174301011	
1	TKSC5386--	TR	KSC5386	®
0000A	4857027200	HEAT SINK	AL T1.0	
0000B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN	
Q901	TKTC3229--	TR	KTC3229	®
Q902	TKTC3229--	TR	KTC3229	®
Q903	TKTC3229--	TR	KTC3229	®
R801	RX10T339J-	R CEMENT	10W 3.3 OHM J TRIPOD	®
R883	DDC7R0M290	POSISTOR	ECPCD7R0M290	®
RLY1	5SC0101338	SW RELAY	DQ5D1-O(M)/GJ-SS-105LM	△
RS801	DSVC471D14	VARISTOR	SVC471D14A	®
SCT1	4859303430	SOCKET CRT	PCS633A	△
SF101	5PTSF5241P	FILTER SAW	TSF5241P	
SW801	5S40101143	SW POWER PUSH	PS3-22SP (P.C.B)	△
T401	50D10A3---	TRANS DRIVE	TD-10A3	®
T402	50H0000210	FBT	LTC-509	® △
T801	50M3541T4-	TRANS SMPS	TSM-3541T4	® △
U102	4859720130	TUNER VARACTOR	DT5-NF20D	®
X502	5XE4R4336C	CRYSTAL QUARTZ	HC-49/U 4.433619MHZ 20PPM	
X651	5XE18R432E	CRYSTAL QUARTZ	HC-49/U 18.43200MHZ 30PPM	
X701	5XYR03276C	CRYSTAL QUARTZ	C-001R 32.768000KHZ 20PPM	
Z501	5PYXT4R5MB	FILTER CERA	XT 4.5MB	
ZZ200	PTMPJ0D441	PCB MAIN (RHU) AS	DTH-20D5FSN	
C105	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)TP	
C310	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
C410	CEXF2E100V	C ELECTRO	250V RSS 10MF (10X20) TP	
C414	CEXF1V471V	C ELECTRO	35V RSS 470MF (10X20) TP	
C415	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
C510	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)TP	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C514	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)TP	
C670	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)TP	
C681	CEXF1C222V	C ELECTRO	16V RSS 2200MF (13X25) TP	
C813	CBXB3D471K	C CERA SEMI	2KV BL(N) 470PF K (T)	
C814	CEXF2C101V	C ELECTRO	160V RSS 100MF (16X25) TP	
C820	CEXF2C101V	C ELECTRO	160V RSS 100MF (16X25) TP	
C882	CH1BEE472M	C CERA AC	U/C/V 2.5KV 4700PF TP	△
C883	CH1BEE472M	C CERA AC	U/C/V 2.5KV 4700PF TP	△
C888	CBXB3D471K	C CERA SEMI	2KV BL(N) 470PF K (T)	
C889	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
C965	CCXB3D102K	C CERA	2KV B 1000PF K (TAPPING)	
ZZ200	PTMPJBD441	PCB MAIN M-10 AS	DTH-20D5FSN	
P601	485923172S	CONN WAFER	YW025-04 (STICK)	
R303	RS02Z129JS	R M-OXIDE FILM	2W 1.2 OHM J SMALL	
R412	RS01Z479J-	R M-OXIDE FILM	1W 4.7 OHM J (TAPPING)	
R611	RS02Z390JS	R M-OXIDE FILM	2W 39 OHM J SMALL	
R814	RS02Z159JS	R M-OXIDE FILM	2W 1.5 OHM J SMALL	
R816	RS02Z129JS	R M-OXIDE FILM	2W 1.2 OHM J SMALL	
ZZ200	PTMPJRD441	PCB MAIN RADIAL AS	DTH-20D5FSN	
C101	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C102	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C103	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
C104	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)	
C106	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C107	CEXF1H228V	C ELECTRO	50V RSS 0.22MF (5X11) TP	
C301	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
C302	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
C303	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C305	CEXF1H101V	C ELECTRO	50V RSS 100MF (8X11.5) TP	
C307	CXSL2H100D	C CERA	500V SL 10PF D (TAPPING)	
C308	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C311	CEXD1H109Q	C ELECTRO	50V RT 1MF (6.3X11) TP	
C401	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
C405	CEXF2C109V	C ELECTRO	160V RSS 1MF (6.3X11) TP	
C411	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C412	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
C413	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
C416	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C417	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
C418	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C420	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C451	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C452	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
C453	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C501	CMXL1J105J	C MYLAR	63V MEU 1MF J	
C502	CEXF1C331V	C ELECTRO	16V RSS 330MF (8X11.5) TP	
C507	CMXM2A224J	C MYLAR	100V 0.22MF J	
C508	CMXM2A224J	C MYLAR	100V 0.22MF J	
C509	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
C511	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)	
C512	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
C513	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C516	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
C517	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)	
C518	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
C520	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C521	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C523	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C525	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C530	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C551	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
C556	CXCH1H809D	C CERA	50V CH 8PF D (TAPPING)	
C564	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
C591	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
C605	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C610	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C651	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C652	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C654	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C655	CEXF1H339V	C ELECTRO	50V RSS 3.3MF (5X11) TP	
C658	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C659	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C660	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C662	CEXF1H339V	C ELECTRO	50V RSS 3.3MF (5X11) TP	
C666	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C669	CEXF1E101V	C ELECTRO	25V RSS 100MF (6.3X11) TP	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C682	CMXM2A224J	C MYLAR	100V 0.22MF J	
C683	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C684	CMXM2A224J	C MYLAR	100V 0.22MF J	
C685	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C686	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C701	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
C702	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
C703	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C704	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
C705	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C706	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C707	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C708	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C757	CCXF1H333Z	C CERA	50V F 0.033MF Z (TAPPING)	
C802	CCXB2H222K	C CERA	500V B 2200PF K (TAPPING)	
C803	CCXB2H222K	C CERA	500V B 2200PF K (TAPPING)	
C806	CMXM2A122J	C MYLAR	100V 1200PF J (TP)	
C807	CMXM2A102J	C MYLAR	100V 1000PF J (TP)	
C815	CEXF2A100V	C ELECTRO	100V RSS 10MF (6.3X11) TP	
C818	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C819	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP	
C831	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
CA01	CEXF1H108V	C ELECTRO	50V RSS 0.1MF (5X11) TP	
CA15	CEXF1H108V	C ELECTRO	50V RSS 0.1MF (5X11) TP	
CA16	CEXF1H108V	C ELECTRO	50V RSS 0.1MF (5X11) TP	
CV01	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
F801A	4857415001	CLIP FUSE	PFC5000-0702	
F801B	4857415001	CLIP FUSE	PFC5000-0702	
L652	5CPX560J--	COIL PEAKING	56UH J (RADIAL)	
L805	58CX430599	COIL CHOKE	AZ-9004Y 940K TP	
L901	5CPX181J--	COIL PEAKING	180UH J (RADIAL)	
Q401	TKTC3207--	TR	KTC3207 (TP)	®
Q403	TKTC3198Y-	TR	KTC3198Y	
Q405	TKTC3207--	TR	KTC3207 (TP)	®
Q591	TKTA1275Y-	TR	KTA1275Y (TP)	
Q601	TKTC3198Y-	TR	KTC3198Y	
Q691	TKTC3198Y-	TR	KTC3198Y	
Q692	TKTC3198Y-	TR	KTC3198Y	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
Q701	TKTC3198Y-	TR	KTC3198Y	
Q702	TKTC3198Y-	TR	KTC3198Y	
Q703	TKTC3198Y-	TR	KTC3198Y	
Q704	TKTA1266Y-	TR	KTA1266Y (TP)	
Q804	TKSA1013Y-	TR	KSA1013Y (TP)	®
Q805	TKTC3205Y-	TR	KTC3205Y (TP)	
Q831	TKTC3198Y-	TR	KTC3198Y	
Q911	TKTA1266Y-	TR	KTA1266Y (TP)	
QA01	TKTC3198Y-	TR	KTC3198Y	
R301	RN02B621JS	R METAL FILM	2W 620 OHM J SMALL	
R302	RN02B621JS	R METAL FILM	2W 620 OHM J SMALL	
R305	RN01B331JS	R METAL FILM	1W 330 OHM J SMALL	
R311	RN02B620JS	R METAL FILM	2W 62 OHM J SMALL	
R403	RN01B562JS	R METAL FILM	1W 5.6K OHM J SMALL	
R411	RN02B620JS	R METAL FILM	2W 62 OHM J SMALL	
R413	RN02B159JS	R METAL FILM	2W 1.5 OHM J SMALL	
R414	RN01B229JS	R METAL FILM	1W 2.2 OHM J SMALL	
R418	RN02B339JS	R METAL FILM	2W 3.3 OHM J SMALL	
R419	RN02B560JS	R METAL FILM	2W 56 OHM J SMALL	
R420	RN02B620JS	R METAL FILM	2W 62 OHM J SMALL	
R817	RN01B301JS	R METAL FILM	1W 300 OHM J SMALL	
R904	RN02B123JS	R METAL FILM	2W 12K OHM J SMALL	
R905	RN02B123JS	R METAL FILM	2W 12K OHM J SMALL	
R906	RN02B123JS	R METAL FILM	2W 12K OHM J SMALL	
SW702	5S50101090	SW TACT	THVH472GCA	
SW703	5S50101090	SW TACT	THVH472GCA	
SW704	5S50101090	SW TACT	THVH472GCA	
SW705	5S50101090	SW TACT	THVH472GCA	
SW706	5S50101090	SW TACT	THVH472GCA	
ZZ200	PTMPJAD441	PCB MAIN AXIAL AS	DTH-20D5FSN	
A001	4859815092	PCB MAIN	330X246	△
C151	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C152	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C153	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C154	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C155	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C526	CCZB1H391K	C CERA	50V B 390PF K (AXIAL)	
C528	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C531	CZSL1H470J	C CERA	50V SL 47PF J (AXIAL)	
C532	CZCH1H200J	C CERA	50V CH 20PF J (AXIAL)	
C552	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C553	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C560	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C562	CZCH1H150J	C CERA	50V CH 15PF J (AXIAL)	
C565	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C567	CCZB1H181K	C CERA	50V B 180PF K (AXIAL)	
C568	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C569	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C570	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C571	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C573	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C580	CBZR1C152M	C CERA	16V Y5R 1500PF M (AXIAL)	
C601	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C650	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C653	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C656	CZCH1H479K	C CERA	50V CH 4.7PF K (AXIAL)	
C657	CBZR1C472M	C CERA	16V Y5R 4700PF M (AXIAL)	
C661	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C663	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C665	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C667	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C671	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C691	CBZR1C472M	C CERA	16V Y5R 4700PF M (AXIAL)	
C692	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C693	CZCH1H479K	C CERA	50V CH 4.7PF K (AXIAL)	
C694	CCZB1H471K	C CERA	50V B 470PF K (AXIAL)	
C695	CCZB1H471K	C CERA	50V B 470PF K (AXIAL)	
C696	CCZB1H471K	C CERA	50V B 470PF K (AXIAL)	
C752	CZCH1H180J	C CERA	50V CH 18PF J (AXIAL)	
C753	CZCH1H180J	C CERA	50V CH 18PF J (AXIAL)	
C754	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C755	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C756	CCZB1H221K	C CERA	50V B 220PF K (AXIAL)	
C758	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C759	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C760	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C768	CCZB1H101K	C CERA	50V B 100PF K (AXIAL)	
C780	CCZF1H103Z	C CERA	50V F 0.01MF Z	
C798	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
C901	CCZB1H561K	C CERA	50V B 560PF K	
C902	CCZB1H271K	C CERA	50V B 270PF K	
C903	CCZB1H561K	C CERA	50V B 560PF K	
CA02	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
CA13	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
CA14	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
D101	DUZ33B----	DIODE ZENER	UZ-33B	
D105	DUZ5R1B---	DIODE ZENER	UZ-5.1B	
D301	D1N4004S--	DIODE	1N4004S	
D401	D1N4937G--	DIODE	1N4937G (TAPPING)	®
D405	D1N4937G--	DIODE	1N4937G (TAPPING)	®
D406	D1N4937G--	DIODE	1N4937G (TAPPING)	®
D407	D1N4937G--	DIODE	1N4937G (TAPPING)	®
D408	D1N4937G--	DIODE	1N4937G (TAPPING)	®
D409	D1N4148---	DIODE	1N4148 (TAPPING)	
D501	D1N4148---	DIODE	1N4148 (TAPPING)	
D502	D1N4148---	DIODE	1N4148 (TAPPING)	
D503	DUZ9R1BM--	DIODE ZENER	UZ-9.1BM	
D504	D1N4148---	DIODE	1N4148 (TAPPING)	
D505	DUZ9R1BM--	DIODE ZENER	UZ-9.1BM	
D506	DUZ5R1B---	DIODE ZENER	UZ-5.1B	
D507	DMTZJ8R2B-	DIODE ZENER	MTZJ 8.2B	
D510	D1N4148---	DIODE	1N4148 (TAPPING)	
D511	D1N4148---	DIODE	1N4148 (TAPPING)	
D512	D1N4148---	DIODE	1N4148 (TAPPING)	
D591	D1N4148---	DIODE	1N4148 (TAPPING)	
D601	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
D602	DMTZJ8R2B-	DIODE ZENER	MTZJ 8.2B	
D603	DUZ5R1B---	DIODE ZENER	UZ-5.1B	
D691	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
D701	D1N4148---	DIODE	1N4148 (TAPPING)	
D704	DUZ3R9B---	DIODE ZENER	UZ-3.9B	
D757	D1N4148---	DIODE	1N4148 (TAPPING)	
D801	DLT2A05G--	DIODE	LT2A05G (TP)	® ⚠
D802	DLT2A05G--	DIODE	LT2A05G (TP)	® ⚠

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
D803	DLT2A05G--	DIODE	LT2A05G (TP)	® ⚠
D804	DLT2A05G--	DIODE	LT2A05G (TP)	® ⚠
D805	D1N4937G--	DIODE	1N4937G (TAPPING)	®
D808	D1N4937G--	DIODE	1N4937G (TAPPING)	®
D812	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
D822	DZY160----	DIODE ZENER	ZY160	
D831	DUZ8R2BM--	DIODE ZENER	UZ-8.2B	®
D888	D1N4937G--	DIODE	1N4937G (TAPPING)	
DA01	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
DA05	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
DA11	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
DA12	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
J001	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J004	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J005	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J006	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J007	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J010	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J011	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J012	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J013	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J014	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J015	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J016	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J017	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J020	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J021	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J023	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J024	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J025	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J026	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J028	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J029	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J030	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J031	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J032	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J033	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J034	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
J035	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J036	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J038	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J039	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J040	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J044	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J045	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J047	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J048	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J050	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J051	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J052	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J053	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J054	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J055	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J056	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J057	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J058	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J060	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J061	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J062	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J063	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J064	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J065	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J066	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J067	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J068	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J069	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J070	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J073	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J074	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J075	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J076	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J077	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J078	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J079	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J080	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J081	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
J082	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J083	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J084	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J085	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J086	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J087	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J088	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J089	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J090	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J091	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J092	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J093	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J094	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J095	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J096	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J097	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J098	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J099	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J102	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J103	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J104	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J105	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J106	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J108	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J114	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J115	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J116	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J117	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J119	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J120	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J121	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J122	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J123	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J125	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J126	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J127	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J128	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J129	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
J130	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J131	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J132	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J133	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J134	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J135	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J136	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J137	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J138	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J139	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J140	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J143	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J144	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J145	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J146	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J147	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J148	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J149	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J150	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J151	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J154	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J156	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J157	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J158	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J159	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J160	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J161	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J162	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J163	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J164	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J165	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J166	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
J167	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
L112	5CPZ220K02	COIL PEAKING	22UH K (AXIAL 3.5MM)	
L502	5CPZ470K04	COIL PEAKING	47UH 10.5MM K (LAL04TB)	
L531	5CPZ150K02	COIL PEAKING	15UH K (AXIAL 3.5MM)	
L533	5CPZ150K02	COIL PEAKING	15UH K (AXIAL 3.5MM)	
L601	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
L603	5CPZ101K02	COIL PEAKING	100UH K (AXIAL 3.5MM)	
L604	5MC0000100	COIL BEAD	HC-3550	
L605	5MC0000100	COIL BEAD	HC-3550	
L607	5MC0000100	COIL BEAD	HC-3550	
L651	5CPZ150K02	COIL PEAKING	15UH K (AXIAL 3.5MM)	
L701	5CPZ220K02	COIL PEAKING	22UH K (AXIAL 3.5MM)	
L802	5MC0000100	COIL BEAD	HC-3550	
L806	5MC0000100	COIL BEAD	HC-3550	
L807	5MC0000100	COIL BEAD	HC-3550	
L888	5MC0000100	COIL BEAD	HC-3550	
R105	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
R150	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
R151	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	
R154	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R156	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R165	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R351	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J	
R352	RN-4Z1603F	R METAL FILM	1/4 160K OHM F	
R353	RN-4Z1602F	R METAL FILM	1/4 16.0K OHM F	
R359	RD-AZ243J-	R CARBON FILM	1/6 24K OHM J	
R360	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
R361	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
R362	RD-AZ113J-	R CARBON FILM	1/6 11K OHM J	
R401	RD-4Z472J-	R CARBON FILM	1/4 4.7K OHM J	
R405	RD-2Z751J-	R CARBON FILM	1/2 750 OHM J	
R407	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R416	RD-2Z121J-	R CARBON FILM	1/2 120 OHM J	
R425	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R451	RD-4Z153J-	R CARBON FILM	1/4 15K OHM J	
R452	RD-4Z113J-	R CARBON FILM	1/4 11K OHM J	
R453	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R454	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R455	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	
R501	RD-2Z151J-	R CARBON FILM	1/2 150 OHM J	
R502	RD-2Z151J-	R CARBON FILM	1/2 150 OHM J	
R503	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J	
R508	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R509	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
R510	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J	
R511	RD-4Z121J-	R CARBON FILM	1/4 120 OHM J	
R512	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J	
R520	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
R530	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R531	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R532	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R533	RD-AZ390J-	R CARBON FILM	1/6 39 OHM J	
R554	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R555	RD-AZ824J-	R CARBON FILM	1/6 820K OHM J	
R557	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
R558	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R559	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R561	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R562	RD-AZ824J-	R CARBON FILM	1/6 820K OHM J	
R563	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
R567	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R568	RN-AZ4701F	R METAL FILM	1/6 4.7K OHM F	
R569	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J	
R570	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R571	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
R580	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
R581	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
R582	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	
R590	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R591	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J	
R601	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R602	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R603	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J	
R604	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J	
R608	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J	
R610	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
R651	RD-2Z121J-	R CARBON FILM	1/2 120 OHM J	
R652	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R653	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R654	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R656	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R657	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
R661	RD-2Z271J-	R CARBON FILM	1/2 270 OHM J	
R662	RD-2Z271J-	R CARBON FILM	1/2 270 OHM J	
R665	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R691	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R692	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J	
R693	RD-4Z472J-	R CARBON FILM	1/4 4.7K OHM J	
R701	RD-AZ390J-	R CARBON FILM	1/6 39 OHM J	
R703	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R704	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R705	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R706	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R707	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R708	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R709	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J	
R710	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R712	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R731	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R732	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R733	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R734	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R735	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R736	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R737	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R738	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R743	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R744	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R746	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
R750	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R751	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R752	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R756	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R758	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R759	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R763	RD-AZ271J-	R CARBON FILM	1/6 270 OHM J	
R766	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R780	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R781	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R782	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
R784	RD-AZ514J-	R CARBON FILM	1/6 510K OHM J	
R785	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R786	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R787	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R788	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R789	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R791	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R792	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R793	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R794	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R795	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R796	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
R797	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R798	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R799	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R802	RD-4Z275J-	R CARBON FILM	1/4 2.7M OHM J	
R803	RD-4Z275J-	R CARBON FILM	1/4 2.7M OHM J	
R804	RD-4Z244J-	R CARBON FILM	1/4 240K OHM J	
R805	RD-4Z201J-	R CARBON FILM	1/4 200 OHM J	
R806	RD-4Z510J-	R CARBON FILM	1/4 51 OHM J	
R807	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	
R808	RD-4Z683J-	R CARBON FILM	1/4 68K OHM J	
R809	RD-4Z752J-	R CARBON FILM	1/4 7.5K OHM J	
R810	RD-4Z162J-	R CARBON FILM	1/4 1.6K OHM J	
R811	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R813	RD-4Z363J-	R CARBON FILM	1/4 36K OHM J	
R818	RD-4Z561J-	R CARBON FILM	1/4 560 OHM J	
R820	RD-4Z392J-	R CARBON FILM	1/4 3.9K OHM J	
R822	RD-4Z562J-	R CARBON FILM	1/4 5.6K OHM J	
R831	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R832	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R833	RD-4Z472J-	R CARBON FILM	1/4 4.7K OHM J	
R862	RD-4Z273J-	R CARBON FILM	1/4 27K OHM J	
R880	RC-2Z565KP	R CARBON COMP	1/2 5.6M OHM K	
R901	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R902	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R903	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
R907	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J	

SERVICE PARTS LIST

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
R908	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J	
R909	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J	
R911	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R912	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R913	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R914	RD-2Z332J-	R CARBON FILM	1/2 3.3K OHM J	
R915	RD-2Z332J-	R CARBON FILM	1/2 3.3K OHM J	
R916	RD-2Z332J-	R CARBON FILM	1/2 3.3K OHM J	
R921	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R922	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R923	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
RA14	RD-AZ914J-	R CARBON FILM	1/6 910K OHM J	
RA16	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
RA17	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
RA18	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
RA19	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
RA20	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	
RV03	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
RV04	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	

CM-220N Different Part List

NO	Part_Loc	Part_Name	DTH-20D4FSSN	DTH-20D5FSN	DTH-21D4FSN	Remark
			OEC	OEC	PHILIPS	
			Part_Code	Part_Code	part_Code	
			Part_Desc	Part_Desc	Part_Desc	
1	R303	R Metal_Oxide	RS02Z129JS	RS02Z129JS	RS02Z109JS	Vertical_Output
			2W 1.2 OHM J SMALL	2W 1.2 OHM J SMALL	2W 1.0 OHM J SMALL	
2	R353	R Metal_Film	RN-4Z1602F	RN-4Z1602F	RN-4Z1502F	
			1/4 16.0K OHM F	1/4 16.0K OHM F	1/4 15K OHM F	
3	R402	R Metal_Film	NONE	NONE	RN02B562JS	Horizontal_Linearity
					2W 5.6K OHM J SMALL	
4	L401	H_Linearity_Coil	NONE	NONE	58H0000055	
					TRL-361A	
5	J082	Wire_Copper	85801065GY	85801065GY	NONE	Over_Current_Protection
			AWG22 1/0.65 TIN COATING	AWG22 1/0.65 TIN COATING		
6	R816	R Metal_Oxide	RS02Z129JS	RS02Z129JS	RS02Z109JS	
			2W 1.2 OHM J SMALL	2W 1.2 OHM J SMALL	2W 1.0 OHM J SMALL	
7	C404	C_Mylar	CMYH3C662H	CMYH3C662H	CMYH3C752H	Width
			1.6KV BUP 6600PF H	1.6KV BUP 6600PF H	1.6KV BUP 7500PF H	
8	PA601	Connector	4850704S27	4850704S27	4850704S28	Speaker
			YH025-04+35098+ULW=400	YH025-04+35098+ULW=400	YH025-04+35098+ULW=600	
9	SP01/02	Speaker	4858310910	4858310910	4858310810	
			7.5W 8 OHM 95BF03LC	7.5W 8 OHM 95BF03LC	SP-58126F01 7W 8 OHM	
10	P401	Conn_Wafer	4859240020	4859240020	4859240120	CRT
			YFW500-05	YFW500-05	YFW500-06	
11	SCT1	Crt_Socket	4859303430	4859303430	4859303530	
			PCS633A	PCS633A	PCS629-03C	

NO	Part_Loc	Part_Name	DTH-20D4FSSN	DTH-20D5FSN	DTH-21D4FSN	Remark
			OEC	OEC	PHILIPS	
			Part_Code	Part_Code	part_Code	
			Part_Desc	Part_Desc	Part_Desc	
12	ZZ131	Crt_Ground_Net	48519A5110	48519A5110	48519A5310	CRT
			2001S-1015-1P	2001S-1015-1P	2101S-1015-1P	
13	Z132	Coil_Degaussing	58G0000146	58G0000146	58G0000147	
			DC-20SF	DC-20SF	DC-21SF	
14	CRT1	CRT	4859631667	4859631667	4859625560	
			A48JLL91X50 (P) M16	A48JLL91X50 (P) M16	A51EFK155X01	
15	PWC1	CORD POWER AS	4859908410	4859909110	4859909110	PHILCO
			MP229+H03VVH2-F+TER=2100	LP-16+H03VVH2-F+HOU=2600	LP-16+H03VVH2-F+HOU=2600	
16	P801A	CONN WAFER	NONE	4859242220	4859242220	
				YFW800-02	YFW800-02	
17	P802A	CONN WAFER	NONE	4859242220	4859242220	
				YFW800-02	YFW800-02	
18	00010	ANT ROD	4850A03510	4850A02510	4850A02510	
			PH-RA-003A	S3BW216B (L=600 MM)	S3BW216B (L=600 MM)	
19	00040	TRANS ANT MATHING	4850A00650	4850A02050	4850A02050	
			YSC-T-07 BR	UMT PA 002	UMT PA 002	
20	U101	TUNER VARACTOR	4859719130	4859720130	4859720130	
			DT5-NF20F	DT5-NF20D	DT5-NF20D	

[illegible]

Check the waveform of I101 #46	NG : GO to the figure ©
	OK : Go the figure ④



APPENDIX

TROUBLESHOOTING GUIDE

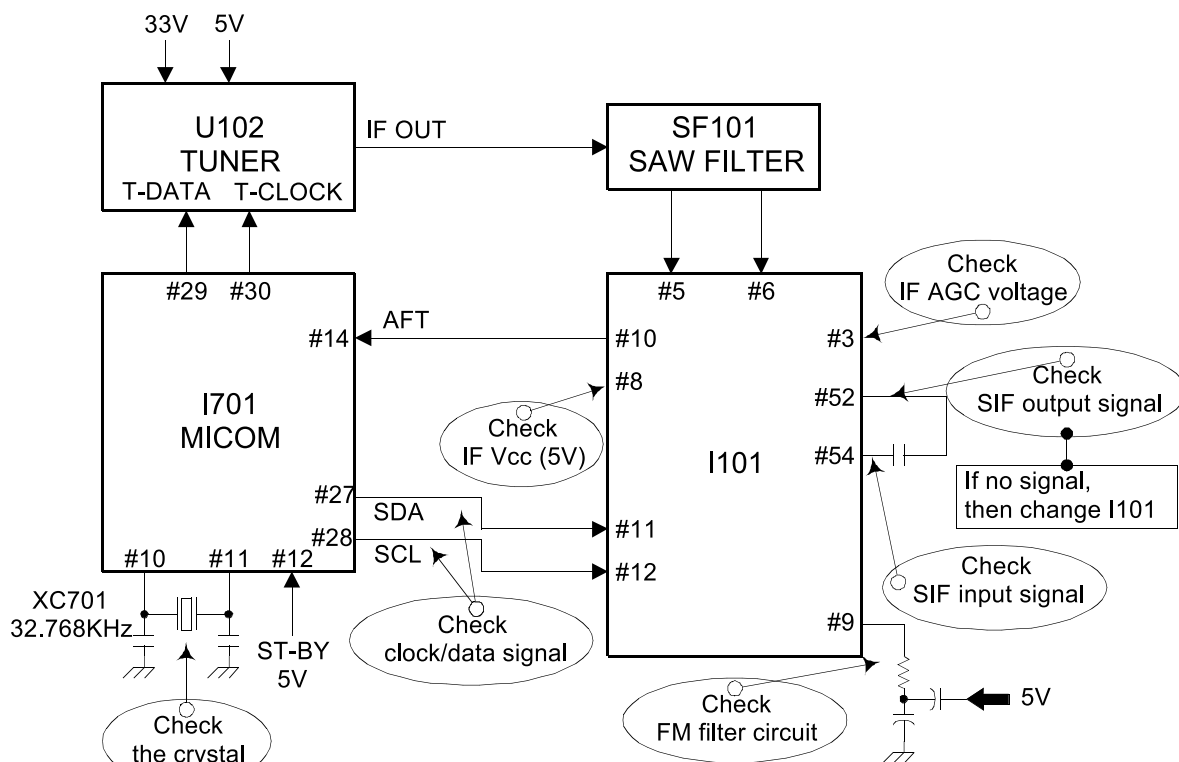
3. NO SOUND

Check audio output signal of I101 #1

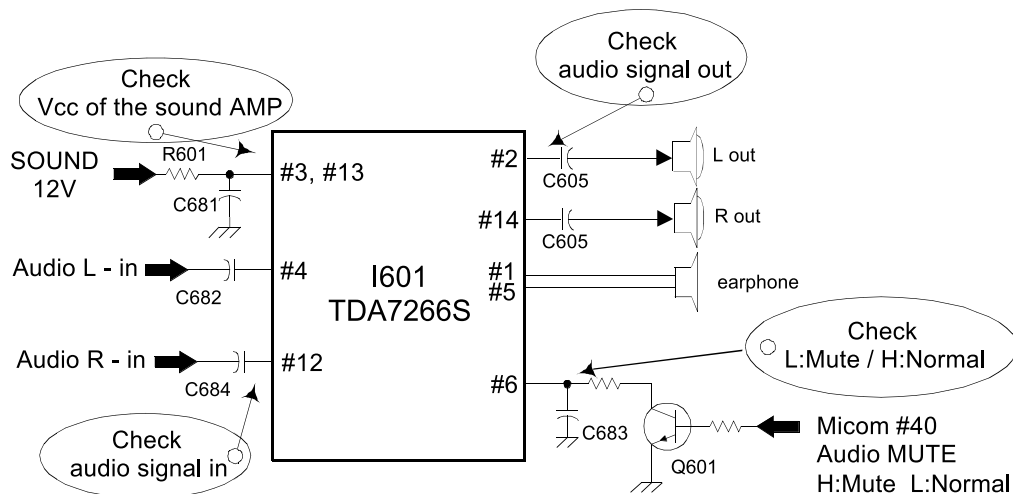
NG : GO to the figure ⑤

OK : Go the figure ⑥

⑤

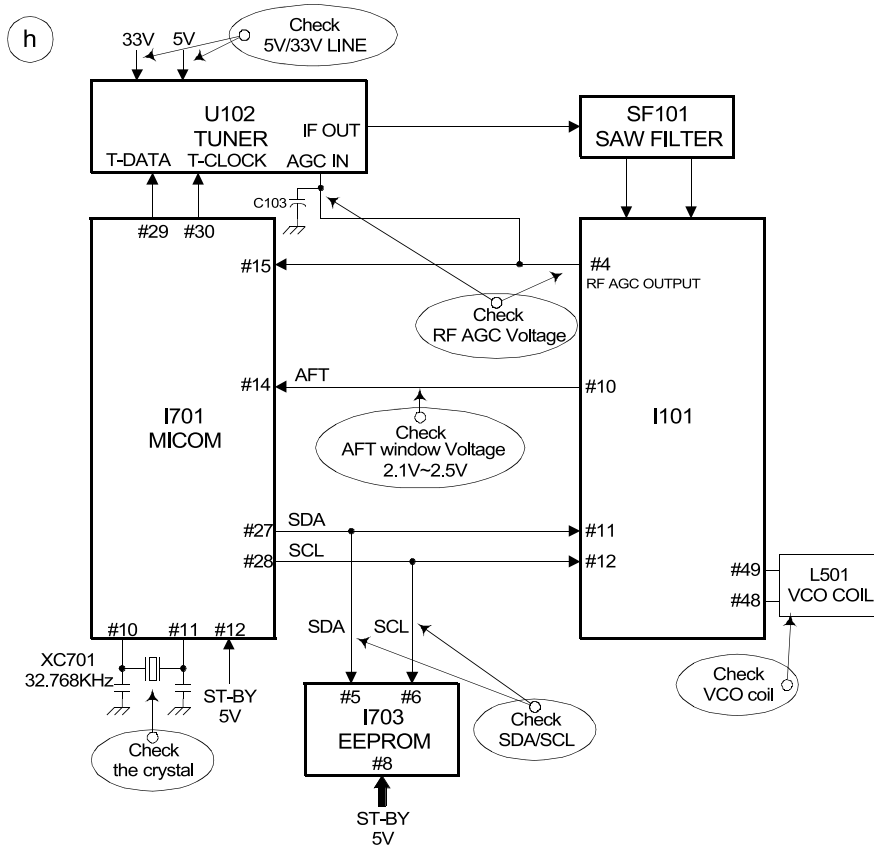


⑥

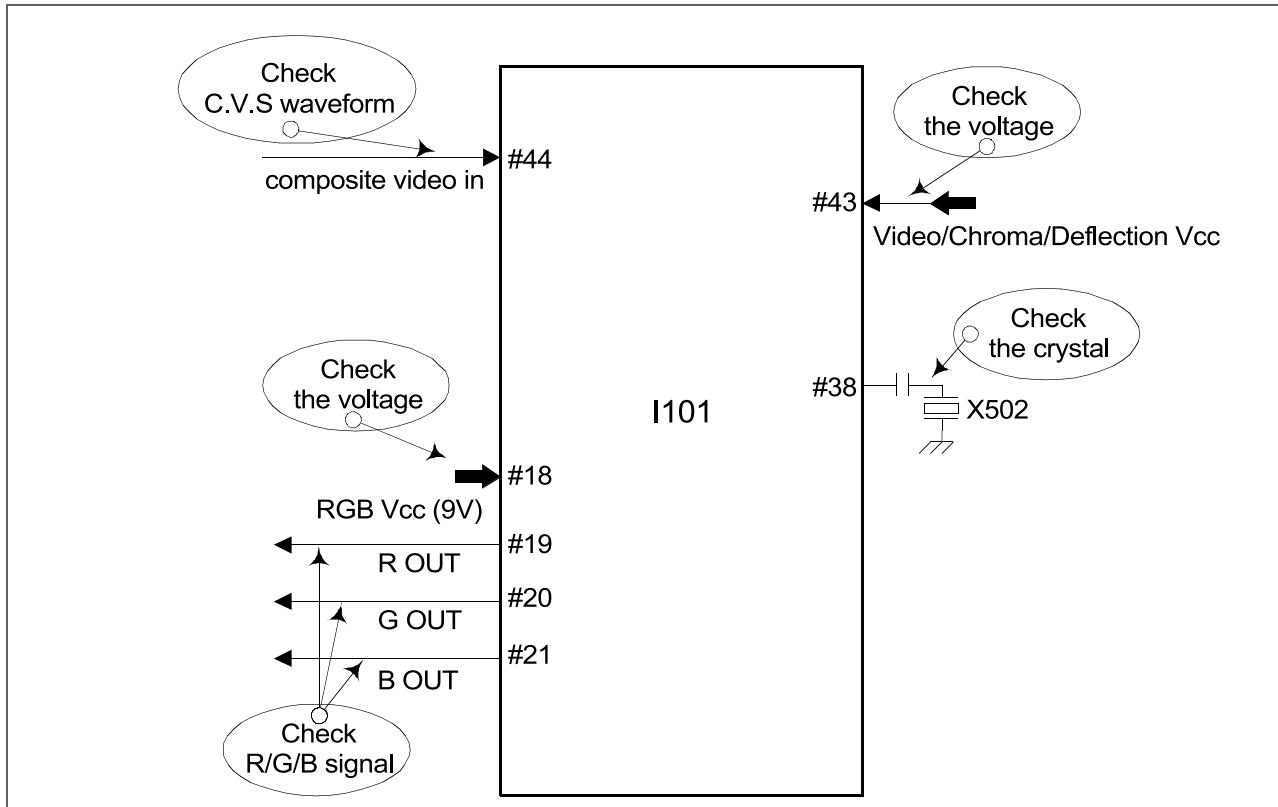


4. CH DON'T STOP

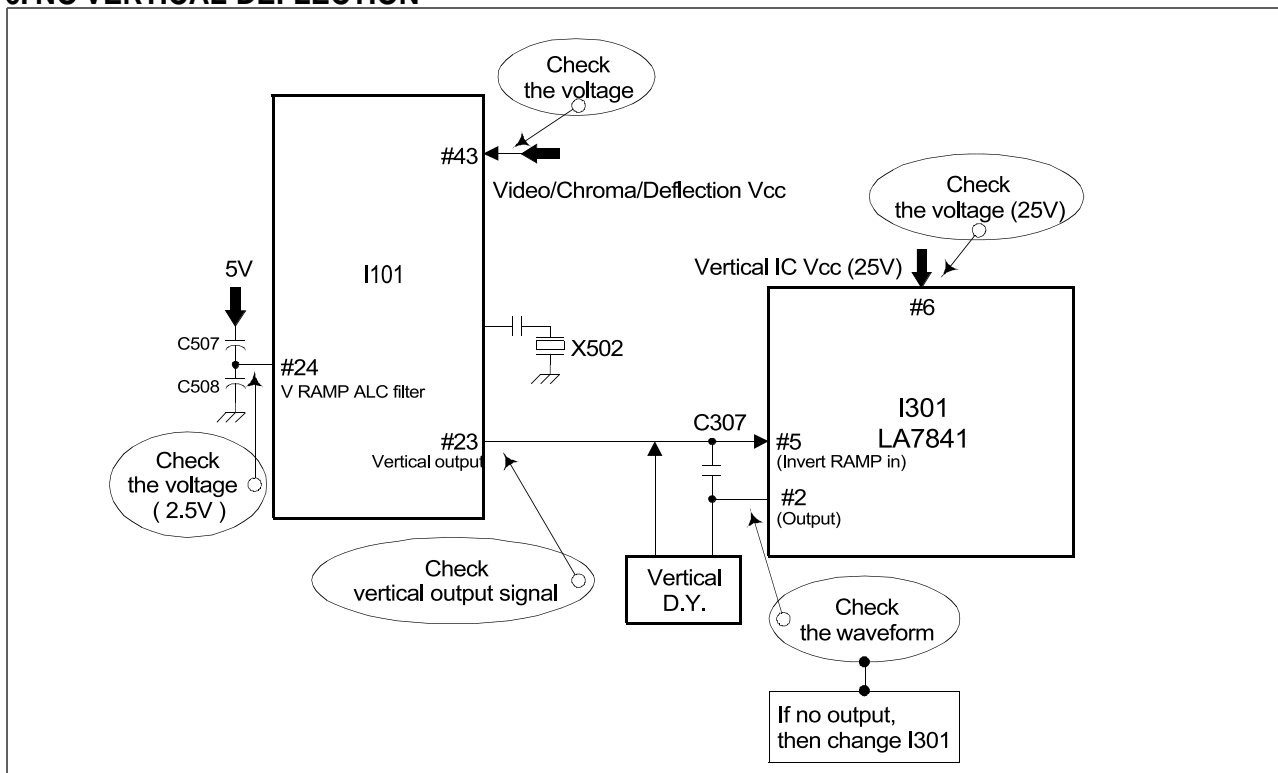
Check the input signal conditions	NG : Loss of signal or weak signal
	OK : Go the figure ⑨



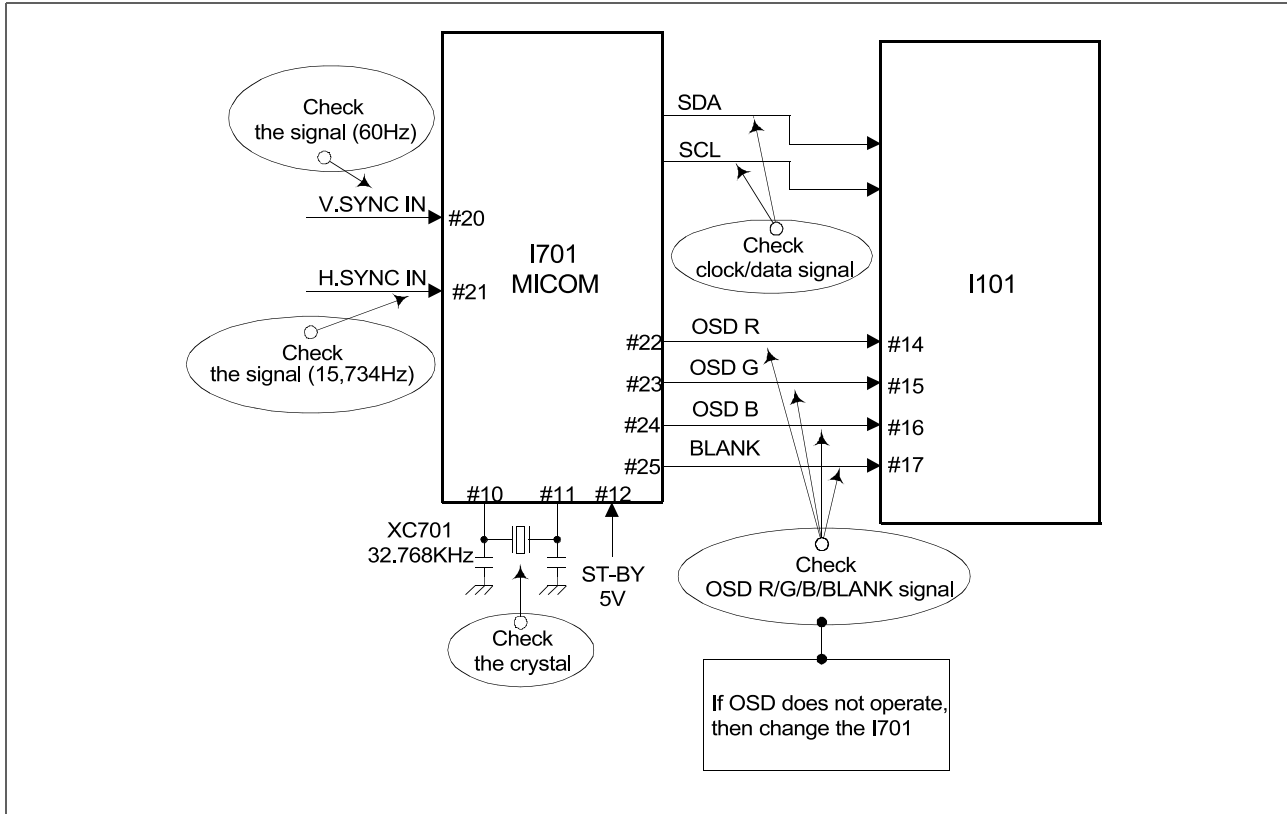
5. NO COLOR



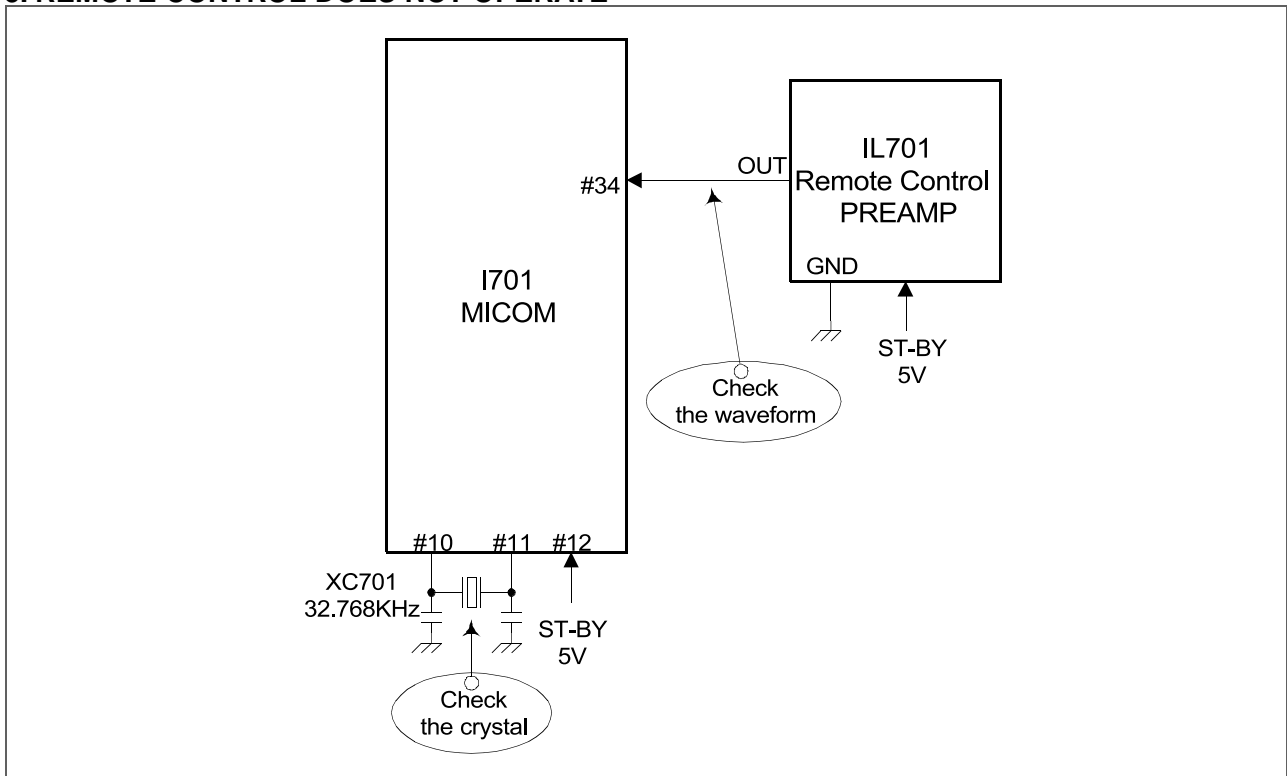
6. NO VERTICAL DEFLECTION



7. NO ON-SCREEN DISPLAY



8. REMOTE CONTROL DOES NOT OPERATE



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